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BANGALORE UNIVERSITY
DEPARTMENT OF CIVIL ENGINEERING

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JNANA BHARATHI
BANGALORE - 560 056

BUB/CTE/2014-15 **Date: 12-05-2014**

1. TESTING OF FINE & COARSE AGGREGATES:

Sub: Testing of Fine & Coarse Aggregates (20mm)
{Project*: Construction of RCC deck right side of Bagalagunte main road and Jodidar Narasimaiah Layout in Bagalagunte Ward No.160}
Ref.: Letter No. Testing/BUB/2014-15, dated 07-05-2014
Sample supplied to lab by: Assistant Executive Engineer,
T.Dasarahalli Sub-Division,
BBMP, Bangalore.
Name of the Contractor/Agency*: Anil Kumar.S.G

TABLE - 1.1 : SIEVE ANALYSIS : Fine Aggregate

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**98.00**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**86.10**	60-95	75-100	85-100	
01.18	**78.50**	30-70	55-90	75-100	
600. mic	**46.00**	15-34	35-59	60-79	
300.mic	**17.70**	5-20	8-30	12-40	
150.mic	**2.90**	0-10	0-10	0-10	

TABLE 1.2 ; SIEVE ANALYSIS : 20mm

IS Sieve Size, mm	*Percentage passing*	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	**100.00**	100.00	100.00
20 mm	**96.90**	85-100	95 - 100
10 mm	**45.10**	0 - 20	25 - 55
4.75 mm	**Nil**	0 - 5	0 - 10

*As furnished by Client.
The Results relate only to the items tested.

12/05/2014

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BUB/CTE/2014-15 **Date: 16-05-2014**

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Construction of RCC deck right side of Bagalagunte main road and Jodidar Narasimaiah Layout in Bagalagunte Ward No.160}
Ref.: Letter No. Testing/BUB/2014-15, dated 07-05-2014
Sample supplied to lab by: Assistant Executive Engineer,
T.Dasarahalli Sub-Division,
BBMP, Bangalore.
Name of the Contractor/Agency*: Anil Kumar.S.G

PHYSICAL TESTS ON CEMENT

Brand* : Birla Super
Grade * : 53
Type * : OPC
Date : 08-05-2014 to 15-05-2014

SL No	Name of Test	Results	Requirements as per
		Cement Sample	IS 12269-1987
1	Initial setting time	**155 min**	Shall not be less than 30 min
2	Final setting time	**265 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.70 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.42 mm**	Shall not be more than 10 mm
5	Compressive strength e) 3 days (average of three results) f) 7 days (average of three results)	**29.80 N/ Sq mm** **39.10 N/Sq mm**	Shall not be less than 27 N/Sqmm Shall not be less than 37N/Sqmm

*As furnished by Client.
The Results relate only to the items tested.

16/05/2014

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BUB/CTE/2014-15

1. TESTING OF COARSE AGGREGATES (40 mm): **Date: 12-05-2014**

Sub: Testing of Coarse Aggregates.
{Project*: Construction of RCC deck right side of Bagalagunte main road and Jodidar Narasimaiah Layout in Bagalagunte Ward No.160}
Ref.: Letter No. Testing/BUB/2014-15, dated 07-05-2014
Sample supplied to lab by: Assistant Executive Engineer,
T.Dasarahalli Sub-Division,
BBMP, Bangalore.
Name of the Contractor/Agency*: Anil Kumar.S.G

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	40 mm Sample	*Single size*	*Graded*
40mm	96. 40	85-100	95 – 100
20mm	36.00	0 -20	30- 70
10mm	16.70	0 -5	10- 35
4.75mm	Nil	------	0 - 5

TABLE 1 2 :

SL No	Test conducted	Sample No	Results	Requirements as per IS:383-1970 & Test Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	As above	16.20 %	Not to exceed 25 %
2.	Crushing value	----,,----	26.00 %	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

*As furnished by Client.
The Results relate only to the items tested.

12/05/2014

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BUB/CTE/2014-15 **Date: 28-06-2014.**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes for 28 days Compressive Strength
{Project*: Construction of RCC deck right side of Bagalagunte main road and Jodidar Narasimaiah Layout in Bagalagunte Ward No.160}
Ref.: Letter No. Testing/BUB/2014-15, dated 27-06-2014
Sample supplied to lab by: Assistant Executive Engineer,
T.Dasarahalli Sub-Division,
BBMP, Bangalore.
Name of the Contractor/Agency*: Anil Kumar.S.G

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1 :

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in Mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	30-05-14	27-06-14	28	22500	540	24.00	**23.92**
	002	"	"	"	"	525	23.33	
	003	"	"	"	"	550	24.44	

*As Furnished by Client.
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28/06/2014

DEPARTMENT OF CIVIL ENGINEERING BANGALORE UNIVERSITY

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